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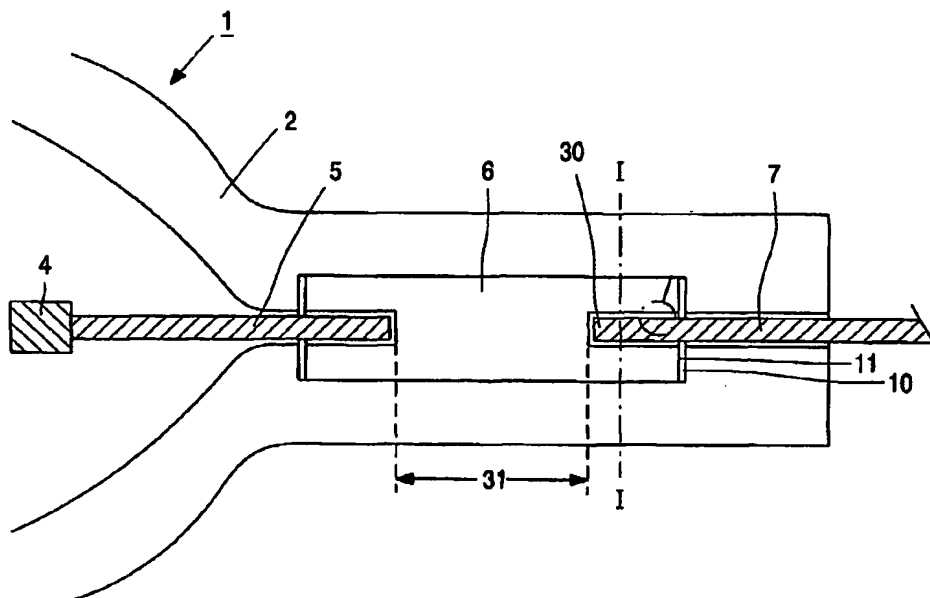
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**Declaration under Rule 4.17:**

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,

[Continued on next page]

(54) Title: METHOD OF MANUFACTURING A LAMP HAVING AN OXIDATION-PROTECTED LEAD WIRE



(57) Abstract: Method of manufacturing a lamp comprising a transparent vessel (1) containing a gas filling, a luminous element or an electrode (4) extending inside the vessel and connected to a lead wire (7) extending through a pinched portion of the vessel, which lead wire is provided with a protective coating (8) obtained by applying a liquid to the outside of the pinched portion where the lead wire extends from said pinched portion, characterized in that said liquid is a solution of a compound comprising a positive ion of a material chosen for its propensity to react with oxidized lead wire material so as to form the protective coating.

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CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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# INTERNATIONAL SEARCH REPORT

Inten al Application No  
PCT/IB2004/050541

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H01J61/36 H01K1/38 H01K3/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01J H01K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| X          | US 5 310 374 A (TOMOYUKI AKIO)<br>10 May 1994 (1994-05-10)<br>abstract<br>column 3, line 25 - column 5, line 31;<br>figures 4-7 | 1, 2, 4-7,<br>9, 10   |
| X          | US 4 835 439 A (ESSOCK DIANA M ET AL)<br>30 May 1989 (1989-05-30)<br>cited in the application<br>abstract; examples 1-5         | 1, 2, 10              |
| X          | EP 0 410 511 A (PHILIPS NV)<br>30 January 1991 (1991-01-30)<br>abstract; figure 1<br>page 4, line 26 - line 34                  | 1, 2, 4-6,<br>9, 10   |
|            | -/--  |                       |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
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- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

21 December 2004

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## INTERNATIONAL SEARCH REPORT

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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT |   |                       |
|--|---|-----------------------|
| Category *   | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
| X  | EP 0 930 639 A (USHIO DENKI KABUSHIKI KAISYA) 21 July 1999 (1999-07-21)<br>paragraph '0007! - paragraph '0021!;<br>figure 1 | 1, 2, 4-6,<br>9, 10   |
| X  | US 6 384 533 B1 (SCHOELZ FRIEDHOLD ET AL)<br>7 May 2002 (2002-05-07)<br>abstract<br>figure 1; examples 2-9                  | 1-3, 5, 10            |
| X  | GB 1 102 526 A (PHILIPS ELECTRONIC ASSOCIATED) 7 February 1968 (1968-02-07)<br>page 1, line 49 - page 2, line 17; figure 1  | 1-3, 5, 6,<br>9, 10   |
| X  | GB 519 087 A (LORENZ C AG)<br>15 March 1940 (1940-03-15)<br>page 1, line 25 - line 57; claims 1, 2                          | 1-3, 5-7,<br>9, 10    |
| X  | US 2 113 984 A (RYDE JOHN W ET AL)<br>12 April 1938 (1938-04-12)<br>column 1, line 1 - column 2, line 16                    | 1-3, 5, 6,<br>10      |
| A  | DE 963 173 C (EGYESUELT IZZOLAMPA)<br>2 May 1957 (1957-05-02)<br>page 1, line 19 - page 2, line 20; claim 1                 | 3, 8                  |
| A  | DE 626 363 C (PATRA PATENT TREUHAND)<br>25 February 1936 (1936-02-25)<br>page 1, line 27 - page 2, line 14                  | 3                     |
| A  | US 4 015 165 A (HARDIES ALFONS EUGEN MARIA) 29 March 1977 (1977-03-29)<br>column 1, line 55 - line 59; figures 1, 2         | 3                     |
| A  | GB 1 534 449 A (DOW CHEMICAL CO)<br>6 December 1978 (1978-12-06)<br>page 3, line 94 - page 4, line 41; claims 2, 21         | 3, 4                  |
| A  | US 6 265 817 B1 (STEINMANN MAARTEN W ET AL) 24 July 2001 (2001-07-24)<br>figure 3   | 7                     |

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/IB2004/050541

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

## Continuation of Box II.2

Present claims 1 and 2 relate to a method defined by reference to an unclear characteristic, namely

- a "material chosen for its propensity to react with oxidized lead wire material so as to form a protective coating" (claim 1), and
- a "negative ion chosen to disintegrate at a temperature 425°C" and at the same time preferably at different temperatures such as 350°C (claim 2)

The claims cover all methods (or a lamp obtained by these methods) intended to have this characteristic, whereas the application provides a clear support within the meaning of Article 6 PCT and a disclosure within the meaning of Article 5 PCT for only a very limited number of such methods. In the present case, the claims so lack clarity and support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the materials referred to in claim 3 in conjunction with the anions referred to in claim 4.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.